

WEIGHT 20 KG

Nasal Trumpet	22	Suction Catheters	10-12 Fr
Oral Airway	60-80	Nasogastric Tubes	12 Fr
Intubation Blades	Miller and Mac 2	Foley Size	10-12 Fr
Endotracheal Tubes	5.5	Chest Tubes	20 Fr
Cardioversion #1	0.5joules/kg <u>10 J</u>	Defibrillation #1	2joules/kg <u>50 J</u>
(synchronized) #2	1joules/kg <u>20 J</u>	(asynchronized) #2	4joules/kg <u>100 J</u>
#3	2joules/kg <u>50 J</u>	#3	4joules/kg <u>100 J</u>
ADENOSINE	(3mg/ml) 100mcg/kg 3000mcg/ml	100mcg x <u>20 kg</u> = 2000mcg	= <u>0.67 MLS</u>
AMIODARONE	(50 mg/ml) 5mg/kg (Bolus for VF or pulseless VT ONLY, over 20 to 60 min for VT with pulse)	5mg x <u>20 kg</u> = 100 mg	= <u>2 MLS</u>
ATROPOINE	(0.1mg/ml) 0.02mg/kg Minimum Dose: 0.1mg or 1ml / Maximum dose: 2 mg or 20 mls	0.02mg x <u>20 kg</u> = 0.4 mg	= <u>4 MLS</u>
CA. CHLORIDE 10%	(100mg/ml) 20mg/kg	20mg x <u>20 kg</u> = 400 mg	= <u>4 MLS</u>
EPINEPHRINE 1:10,000	(0.1mg/ml) 0.01mg/kg (ALL IV DOSES, may increase dosage for pulseless rhythms)	0.01mg x <u>20 kg</u> = 0.2 mg	= <u>2 MLS</u>
EPINEPHRINE 1:1,000	(1mg/ml) 0.1mg/kg (ALL ETT DOSES ONLY)	0.1mg x <u>20 kg</u> = 2 mg	= <u>2 MLS</u>
GLUCOSE--D25%	(250mg/ml) 0.5gm/kg	0.5gm x <u>20 kg</u> = 10 gm	= <u>40 MLS</u>
HCO3-8.4%	(1meq/ml) 1meq/kg	1meq x <u>20 kg</u> = 20 meq	= <u>20 MLS</u>
LIDOCAINE	(20mg/1ml) 1mg/kg	1mg x <u>20 kg</u> = 20 mg	= <u>1 MLS</u>
MAGNESIUM	(500mg/ml) 25mg/kg	25mg x <u>20 kg</u> = 500 mg	= <u>1 MLS</u>
NALOXONE (NARCAN)	(1mg/ml) 0.1mg/kg	0.1mg x <u>20 kg</u> = 2 mg	= <u>2 MLS</u>
FLUMAZENIL	(0.1mg/ml) 0.01mg/kg	0.01mg x <u>20 kg</u> = 0.2 mg	= <u>2 MLS</u>
DILANTIN	(50mg/1ml) 20mg/kg	20mg x <u>20 kg</u> = 400 mg	= <u>8 MLS</u>
FENTANYL	(50mcg/ml) 1mcg/kg	1mcg x <u>20 kg</u> = 20 mcg	= <u>0.4 MLS</u>
KETAMINE	(10mg/ml) 1mg/kg	1mg x <u>20 kg</u> = 20 mg	= <u>2 MLS</u>
THIOPENTAL	(25mg/ml) 2mg/kg	2mg x <u>20 kg</u> = 40 mg	= <u>1.6 MLS</u>
VERSED	(1mg/ml) 0.1mg/kg	0.1mg x <u>20 kg</u> = 2 mg	= <u>2 MLS</u>
ROCURONIUM	(10mg/ml) 1mg/kg	1mg x <u>20 kg</u> = 20 mg	= <u>2 MLS</u>
VECURONIUN (dilute 10mg/vial)	0.1mg/kg (with 10 ml sterile water = 1mg/ml)	0.1mg x <u>20 kg</u> = 2 mg	= <u>2 MLS</u>

20 KG DRIP CALCULATIONS VASOCONSTRICTOR / INOTROPIC MEDICATIONS

MEDICATION (concentration)		*****																				
DOBUTAMINE	(1 mg/ml)	(Premixed bag = 250 mg/250 ml D5W)																				
Dosage:	mcg/kg/min																					
ml/hr	1 2 3 4	1.2 2.4 3.6 4.8	5 6 7 8	6 7.2 8.4 9.6	7 8.4 10.8 12	8 9.6 10.8 12	9 10.8 12 13.2	10 12 13.2 14.4	11 13.2 14.4 15.6	12 14.4 15.6 16.8	13 15.6 16.8 18	14 16.8 18 19.2	15 18 19.2 20.4	16 19.2 20.4 21.6	17 20.4 21.6 22.8	18 21.6 22.8 24	19 22.8 24	20				
DOBUTAMINE	(2 mg/ml)	*** In a Code 99 situation, this concentration is in the crash cart in a pre-mixed IV bag. ***																				
Dosage:	mcg/kg/min	(Premixed bag = 500 mg/250 ml D5W)																				
ml/hr	1 2 3 4	0.6 1.2 1.8 2.4	5 6 7 8	3 3.6 4.2 4.8	6 4.2 4.8 5.4	7 4.2 4.8 5.4	8 4.8 5.4 6	9 5.4 6 6.6	10 6 6.6 7.2	11 6 6.6 7.2	12 7.2 7.8 8.4	13 7.8 8.4 9	14 8.4 9 9.6	15 9 9.6 10.2	16 9.6 10.2 10.8	17 10.2 10.8 11.4	18 10.8 11.4 12	19 11.4 12	20			
MEDICATION	(concentration)	*****																				
DOPAMINE	(0.8 mg/ml)	(Premixed bag = 200 mg/250 ml D5W)																				
Dosage:	mcg/kg/min																					
ml/hr	1 2 3 4	1.5 3 4.5 6	5 7.5 9 10.5	6 9 12 13.5	7 10.5 12 13.5	8 12 13.5 15	9 12 13.5 15	10 13.5 15 16.5	11 15 16.5 18	12 16.5 18 19.5	13 18 19.5 21	14 19.5 21 22.5	15 21 22.5 24	16 22.5 24 25.5	17 24 25.5 27	18 25.5 27 28.5	19 27 28.5 30	20				
DOPAMINE	(1.6 mg/ml)	*** In a Code 99 situation, this concentration is in the crash cart in a pre-mixed IV bag. ***																				
Dosage:	mcg/kg/min	(Premixed bag = 400 mg/250 ml D5W)																				
ml/hr	1 2 3 4	0.8 1.5 2.3 3	5 3.8 4.5 5.3	6 4.5 5.3 6	7 5.3 6 6.8	8 6 7.5 8.3	9 6 7.5 8.3	10 8.3 9 9.8	11 9 9.8 10.5	12 9 10.5 11.3	13 9.8 11.3 12	14 10.5 12.8 12.8	15 11.3 12.8 13.5	16 12 13.5 14.3	17 12 13.5 15	18 12.8 13.5 14.3	19 13.5 14.3 15	20				
DOPAMINE	(3.2 mg/ml)	(Premixed bag = 800 mg/250 ml D5W)																				
Dosage:	mcg/kg/min																					
ml/hr	1 2 3 4	0.4 0.8 1.1 1.5	5 1.9 2.3 2.6	6 1.9 2.3 2.6	7 2.3 2.6 3	8 2.6 3 3.4	9 3 3.4 3.8	10 3 3.8 4.1	11 3.8 4.1 4.5	12 4.1 4.5 4.9	13 4.5 4.9 5.3	14 4.9 5.3 5.6	15 5.3 5.6 6	16 5.6 6 6.4	17 6 6.4 6.8	18 6.4 6.8 7.1	19 6.8 7.1 7.5	20				
***	MEDICATION	*****																				
EPINEPHRINE / ISOPROTERENOL / PHENYLEPHRINE	(0.02 mg/ml)																					
Dosage:	mcg/kg/min																					
ml/hr	0.05 0.06 0.07 0.08	3 3.6 4.2 4.8	0.09 5.4 5.4 6	0.1 6 12 18	0.2 6 12 24	0.3 12 18 30	0.4 18 24 36	0.5 30 42 48	0.6 36 42 54	0.7 42 48 60	0.8 48 54 90	0.9 54 60 X	1 60 90 X	1.5 90 X	2							
EPINEPHRINE / ISOPROTERENOL / PHENYLEPHRINE	(0.05 mg/ml)																					
Dosage:	mcg/kg/min																					
ml/hr	0.05 0.06 0.07 0.08	1.2 1.4 1.7 1.9	0.09 2.2 2.4 4.8	0.1 2.2 2.4 4.8	0.2 2.4 4.8 7.2	0.3 4.8 7.2 9.6	0.4 7.2 9.6 12	0.5 9.6 12 14.4	0.6 12 14.4 16.8	0.7 14.4 16.8 19.2	0.8 16.8 19.2 21.6	0.9 19.2 21.6 24	1 21.6 24 36	1.5 24 36 48	2							
EPINEPHRINE	(0.1 mg/ml)	** In a Code 99 situation, draw up 45 ml's of D5W in a 60 ml syringe and add 5 ml's of 1:1,000 Epinephrine (vial) for a final concentration of 0.1 mg/ml. **																				
Dosage:	mcg/kg/min																					
ml/hr	0.05 0.06 0.07 0.08	0.6 0.7 0.8 1	0.09 1.1 1.2 1.1	0.1 1.2 2.4 2.4	0.2 2.4 3.6 3.6	0.3 3.6 4.8 4.8	0.4 4.8 6 7.2	0.5 6 7.2 8.4	0.6 7.2 8.4 9.6	0.7 8.4 9.6 10.8	0.8 9.6 10.8 12	0.9 10.8 12 18	1 12 18 24	1.5 18 24 24	2							

20 KG DRIP CALCULATIONS VASOCONSTRICTOR / INOTROPIC MEDICATIONS

*****	MEDICATION	(concentration)	*****																					
	MILRINONE	(0.1 mg/ml)	*****																					
		Dosage: mcg/kg/min	*****																					
	ml/hr	0.1 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1	*****																					
	ml/hr	1.2 2.4 3 3.6 4.2 4.8 5.4 6 6.6 7.2 7.8 8.4 9 9.6 10.2 10.8 11.4 12	*****																					
***	MILRINONE	(0.2 mg/ml)	(Premixed bag = 40 mg/200 ml D5W)																					
		Dosage: mcg/kg/min	*****																					
	ml/hr	0.1 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95 1	*****																					
	ml/hr	0.6 1.2 1.5 1.8 2.1 2.4 2.7 3 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6	*****																					
***	MEDICATION	(concentration)	*****																					
	NOREPINEPHRINE	(0.02 mg/ml)	*****																					
		Dosage: mcg/kg/min	*****																					
	ml/hr	0.05 0.06 0.07 0.08 0.09 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2	*****																					
	ml/hr	3 3.6 4.2 4.8 5.4 6 12 18 24 30 36 42 48 54 60 90 X	*****																					
	NOREPINEPHRINE	(0.04 mg/ml)	*****																					
		Dosage: mcg/kg/min	*****																					
	ml/hr	0.05 0.06 0.07 0.08 0.09 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.5 2	*****																					
	ml/hr	1.5 1.8 2.1 2.4 2.7 3 6 9 12 15 18 21 24 27 30 45 60	*****																					

20 KG DRIP CALCULATIONS ANTIARRHYTHMIC

*****	MEDICATION	(concentration)	*****																					
		*** In a Code 99 situation, draw up 48 ml's of D5W in a 60 cc syringe and add 1.8 ml's of Amiodarone for a concentration of 1.8 mg/ml. ***																						
	AMIODARONE	(1.8 mg/ml)	*****																					
		Dosage: mcg/kg/min	*****																					
	ml/hr	5 6 7 8 9 10 11 12 13 14 15	*****																					
	ml/hr	3.3 4 4.7 5.3 6 6.7 7.3 8 8.7 9.3 10	*****																					
*****	MEDICATION	(concentration)	*****																					
		*** In a Code 99 situation, this concentration is in the crash cart in a pre-mixed IV bag. ***																						
	LIDOCAINE	(4 mg/ml)	(Premixed bag = 2 grams/500 ml D5W)																					
		Dosage: mcg/kg/min	*****																					
	ml/hr	10 15 20 25 30 35 40 45 50	*****																					
	ml/hr	3 4.5 6 7.5 9 10.5 12 13.5 15	*****																					

20 KG DRIP CALCULATIONS FOR VASODILATOR/ANTIHYPERTENSIVE MEDICATIONS

***** MEDICATION (concentration) *****											
NICARDIPINE (1 mg/ml)											
Dosage: mcg/kg/min											
0.5 1 1.5 2 2.5 3 3.5 4 4.5 5											
ml/hr 0.6 1.2 1.8 2.4 3 3.6 4.2 4.8 5.4 6											
***** MEDICATION (concentration) *****											
NITROPRUSSIDE (1 mg/ml)											
Dosage: mcg/kg/min											
0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7 7.5 8											
ml/hr 0.6 1.2 1.8 2.4 3 3.6 4.2 4.8 5.4 6 6.6 7.2 7.8 8.4 9 9.6											
***** MEDICATION (concentration) *****											
NITROGLYCERIN (0.8 mg/ml)											
Dosage: mcg/kg/min											
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20											
ml/hr 1.5 3 4.5 6 7.5 9 10.5 12 13.5 15 16.5 18 19.5 21 22.5 24 25.5 27 28.5 30											

20 KG DRIP CALCULATIONS CALCIUM CHLORIDE

*****	MEDICATION	(concentration)	*****									
CALCIUM CHLORIDE	(10 mg/ml)	*****										
	Dosage: mg/kg/hour	*****										
ml/hr	1 2 3 4 5	*****										
	2 4 6 8 10	*****										

CALCIUM CHLORIDE	(50 mg/ml)
	Dosage: mg/kg/hour
ml/hr	1 2 3 4 5
	0.4 0.8 1.2 1.6 2

20 KG DRIP CALCULATIONS FENTANYL AND VERSED

*****	MEDICATION	(concentration)	*****									
FENTANYL	(25 mcg/ml = 0.025 mg/ml)	*****										
	Dosage: mcg/kg/hour	*****										
ml/hr	0.5 1 1.5 2 2.5 3 3.5 4 4.5 5	*****										
	0.4 0.8 1.2 1.6 2 2.4 2.8 3.2 3.6 4	*****										

FENTANYL	(50 mcg/ml = 0.05 mg/ml)
	Dosage: mcg/kg/hour
ml/hr	0.5 1 1.5 2 2.5 3 3.5 4 4.5 5
	0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2

*****	MEDICATION	(concentration)	*****									
VERSED	(1 mg/ml)	*****										
	Dosage: mg/kg/hour	*****										
ml/hr	0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5	*****										
	1 2 3 4 5 6 7 8 9 10	*****										

VERSED	(5 mg/ml)
	Dosage: mg/kg/hour
ml/hr	0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5
	0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2